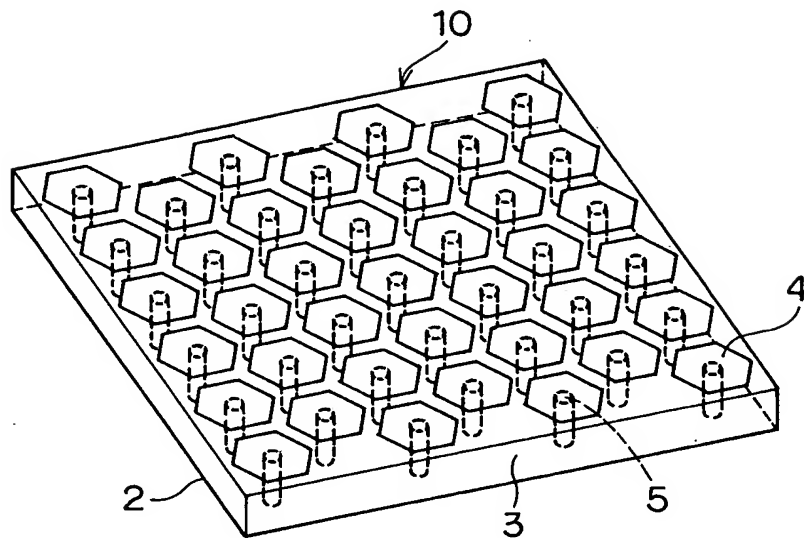
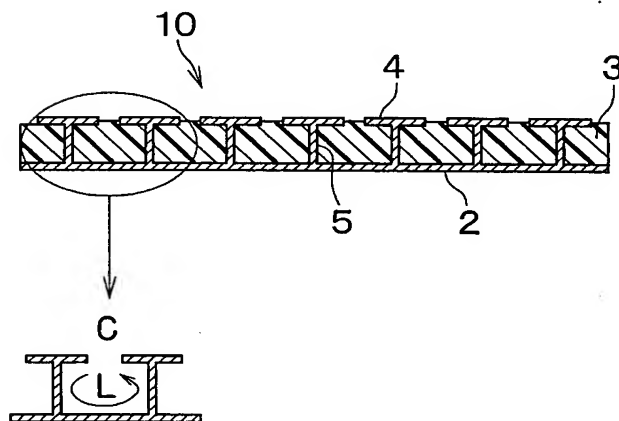


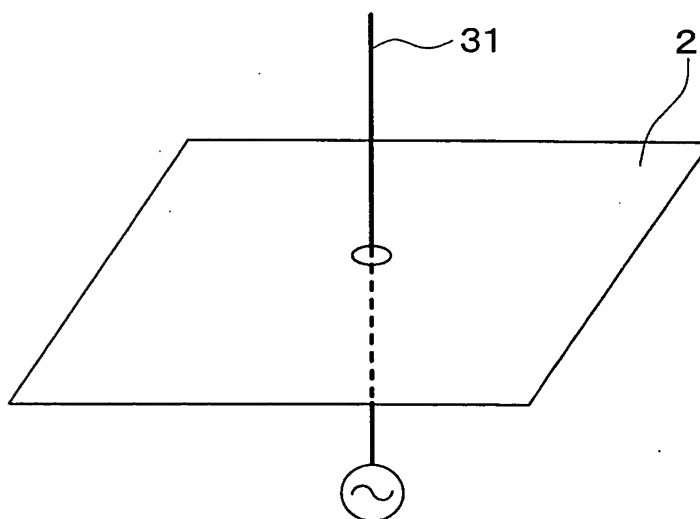
**FIG. 1A**  
PRIOR ART



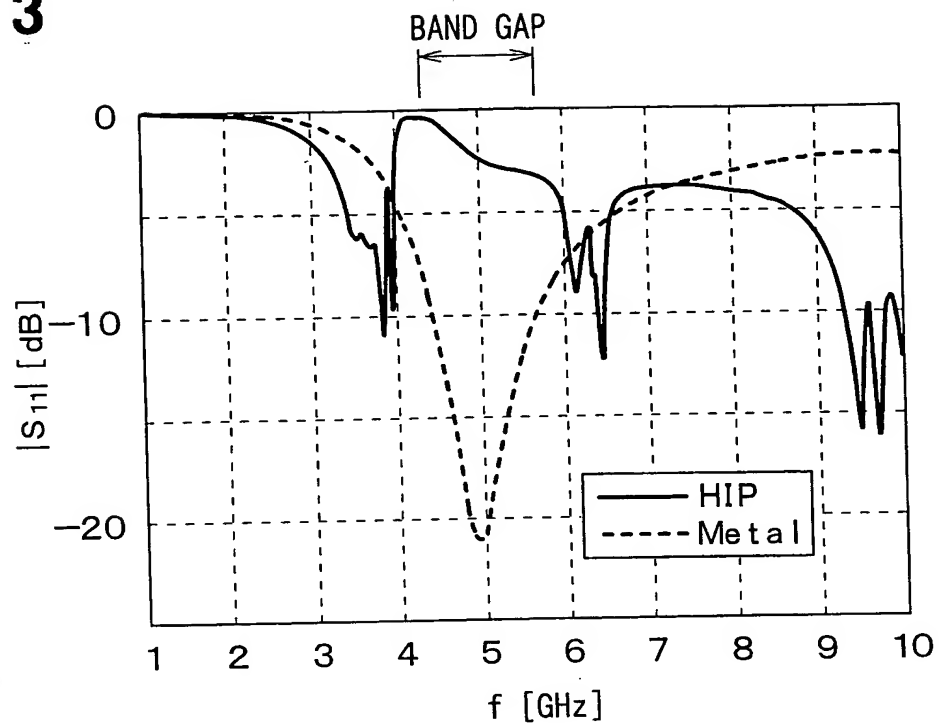
**FIG. 1B**  
PRIOR ART



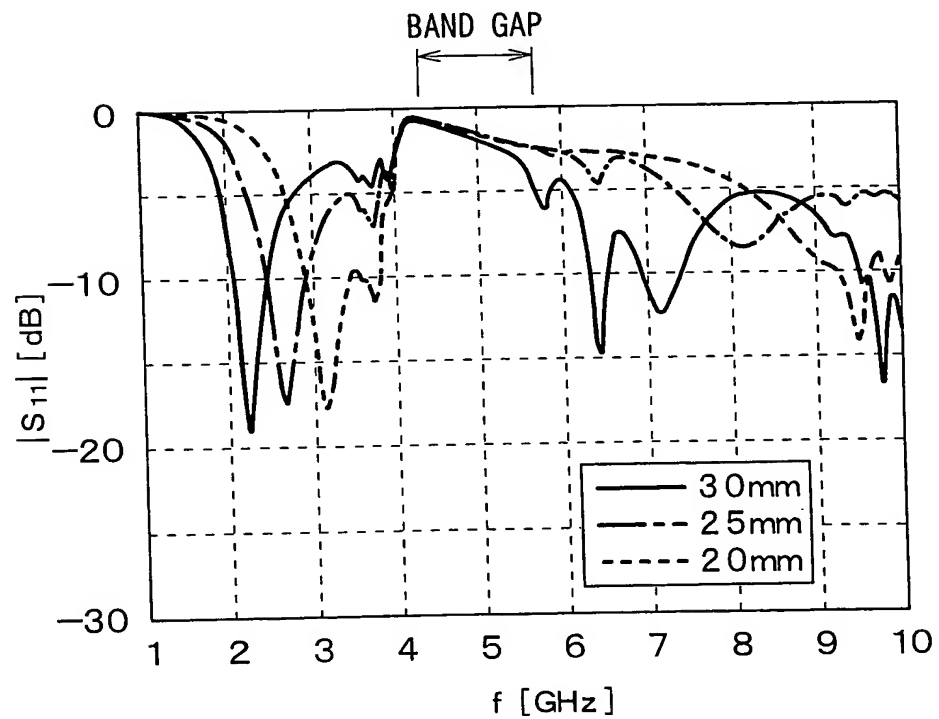
**FIG. 2**



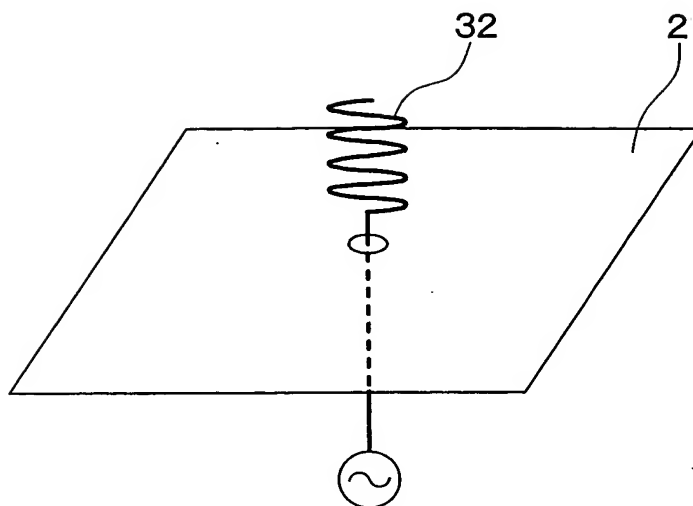
**FIG. 3**



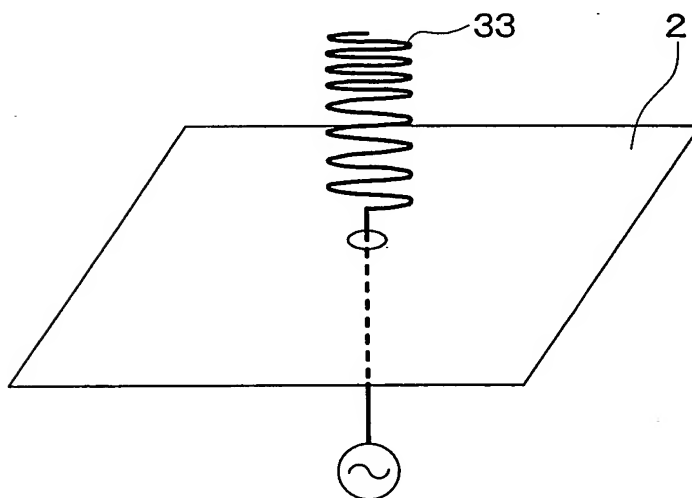
**FIG. 4**



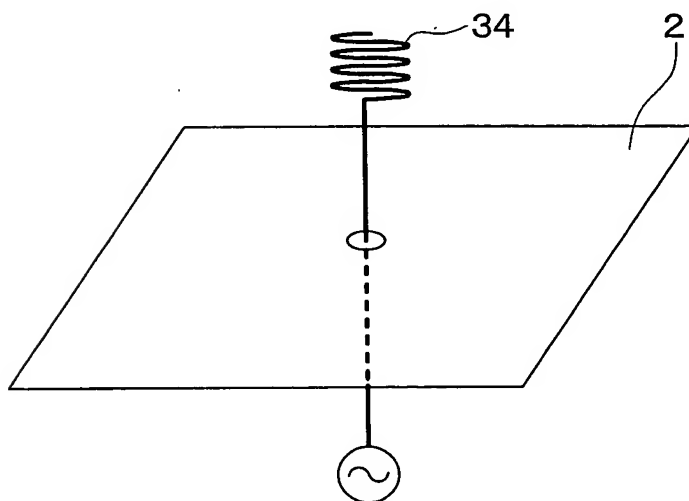
**FIG. 5**



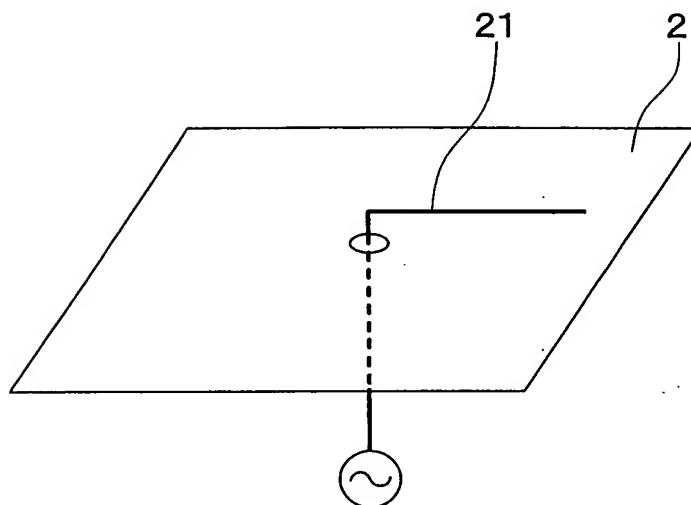
**FIG. 6**



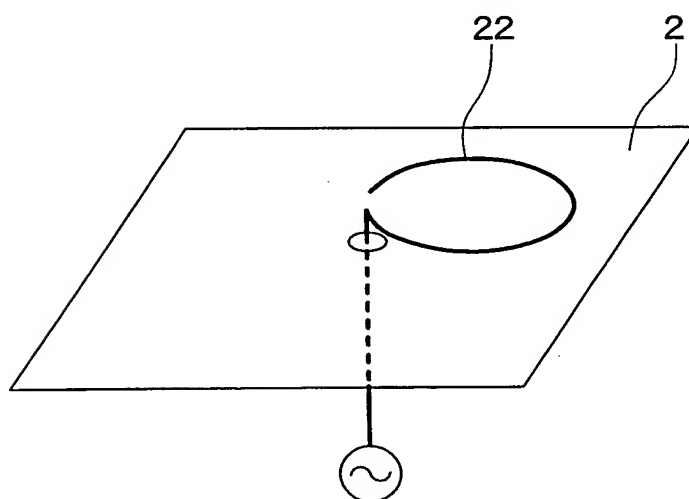
**FIG. 7**



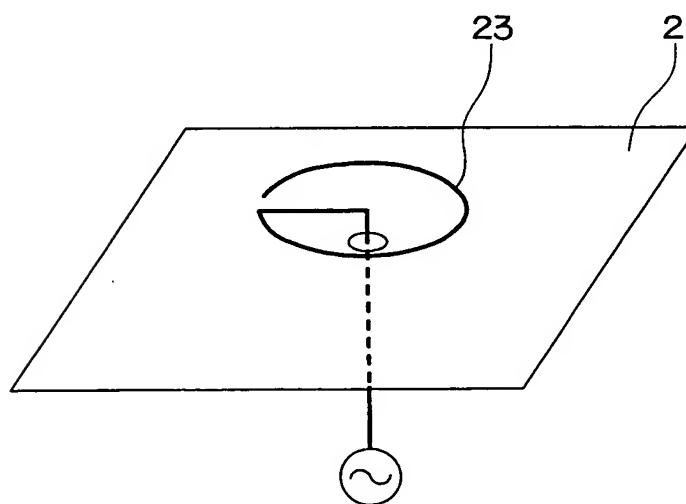
**FIG. 8**



**FIG. 9**



**FIG. 10**



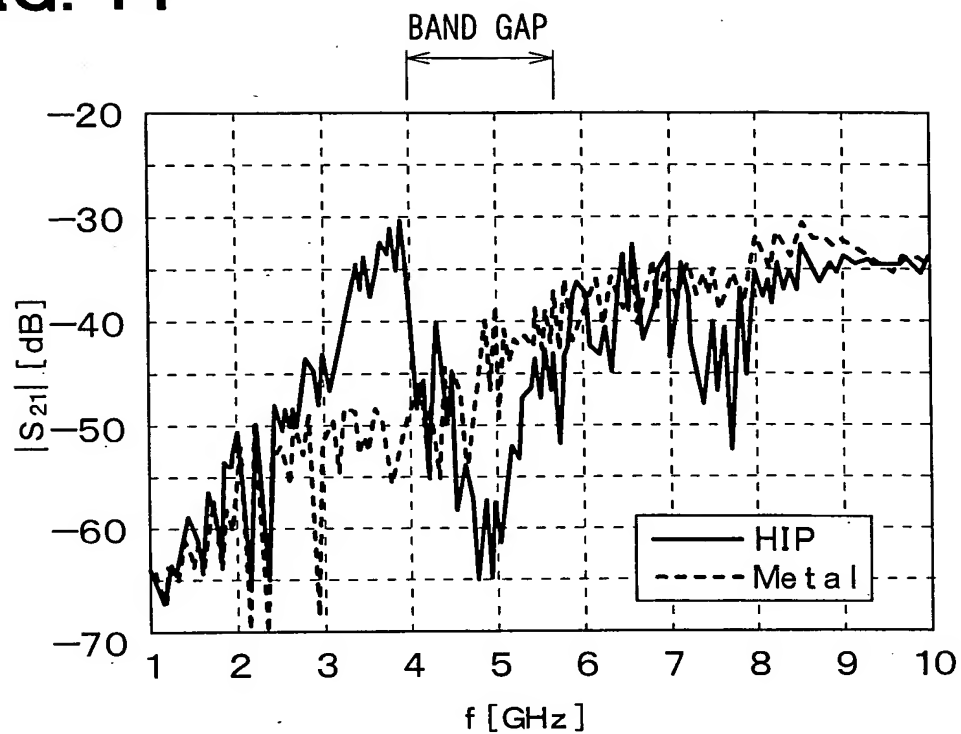
**FIG. 11**

FIG. 11 is a perspective view of a honeycomb structure 1. The structure is composed of a grid of hexagonal cells 3, each containing a central circular opening 4. The entire grid is enclosed within a rectangular frame 2. A dashed line 31 indicates a vertical section line through the structure. The label 11 points to the left side of the structure.

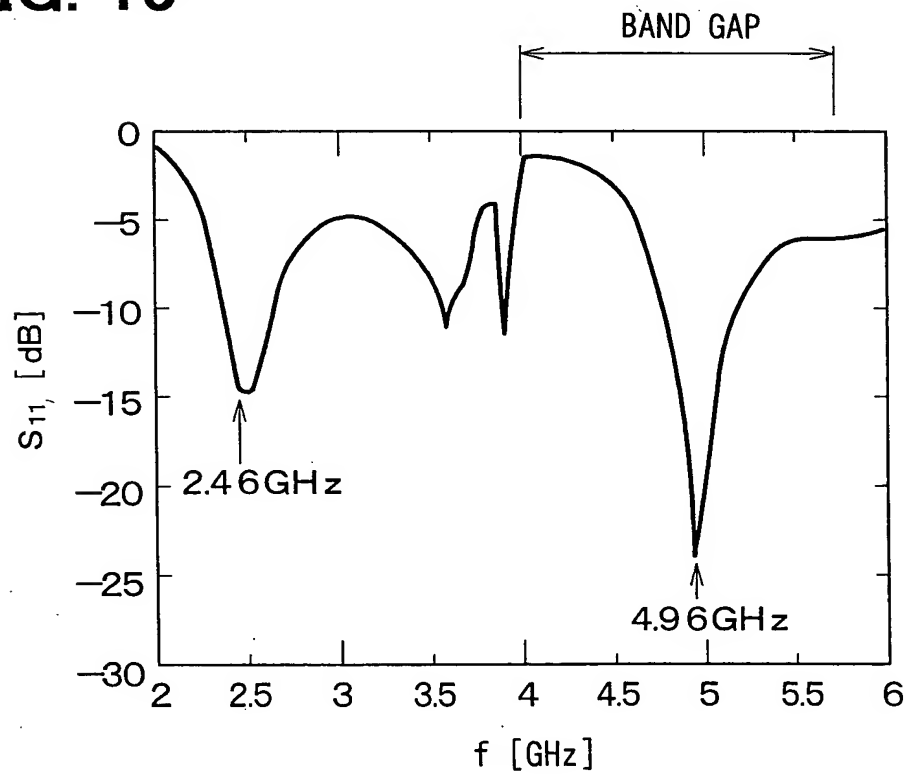
FIG. 12

A schematic diagram of a hexagonal honeycomb structure. It shows three hexagonal cells. The bottom-left cell has a central circular hole. The top-right cell also has a central circular hole. The middle-right cell is partially filled with a stippled pattern. Dimensions are indicated:  $d_1$  is the distance between the centers of the two holes;  $d_2$  is the thickness of the middle-right cell;  $d_3$  is the diameter of the central hole in the top-right cell; '4' is the thickness of the top-right cell; and '5' is the distance from the center of the hole to the top edge of the top-right cell.

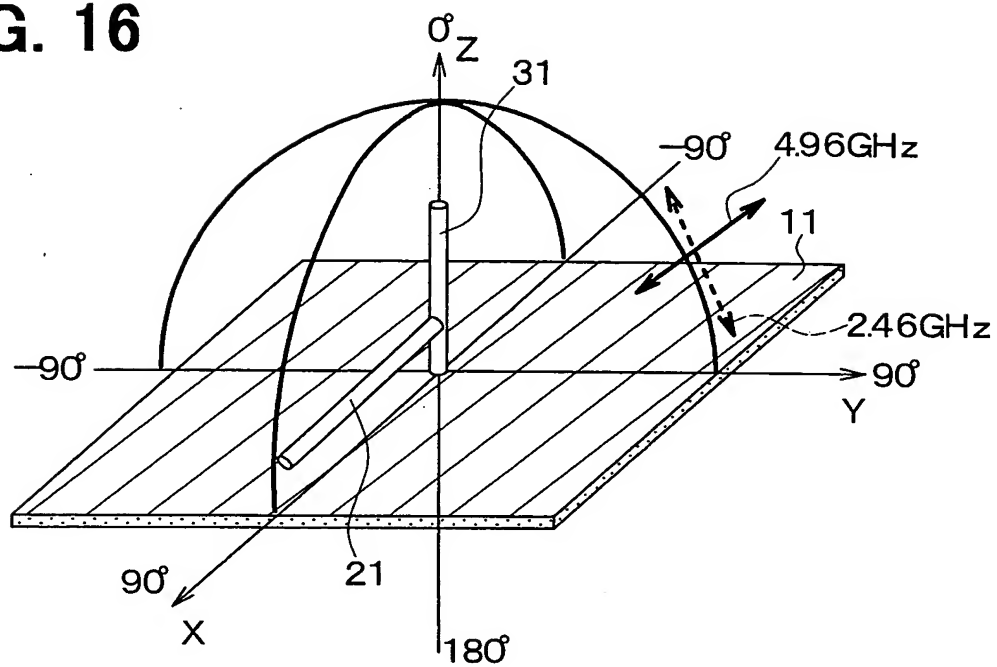
**FIG. 14**



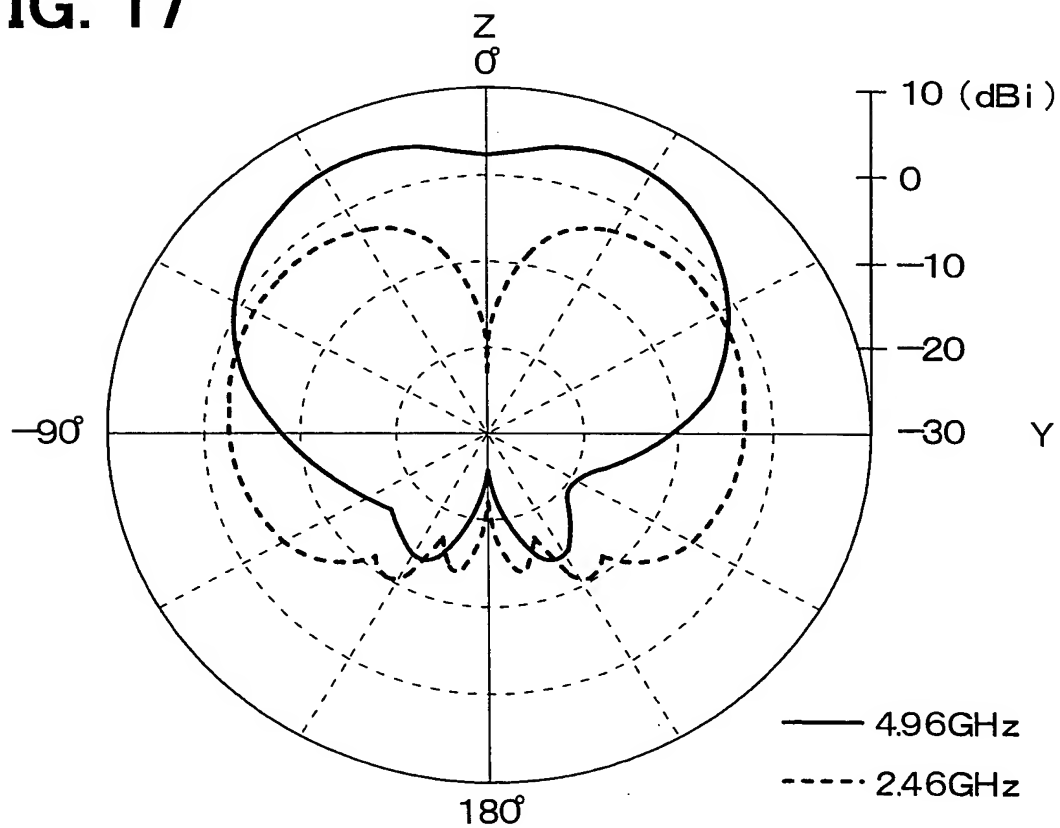
**FIG. 15**



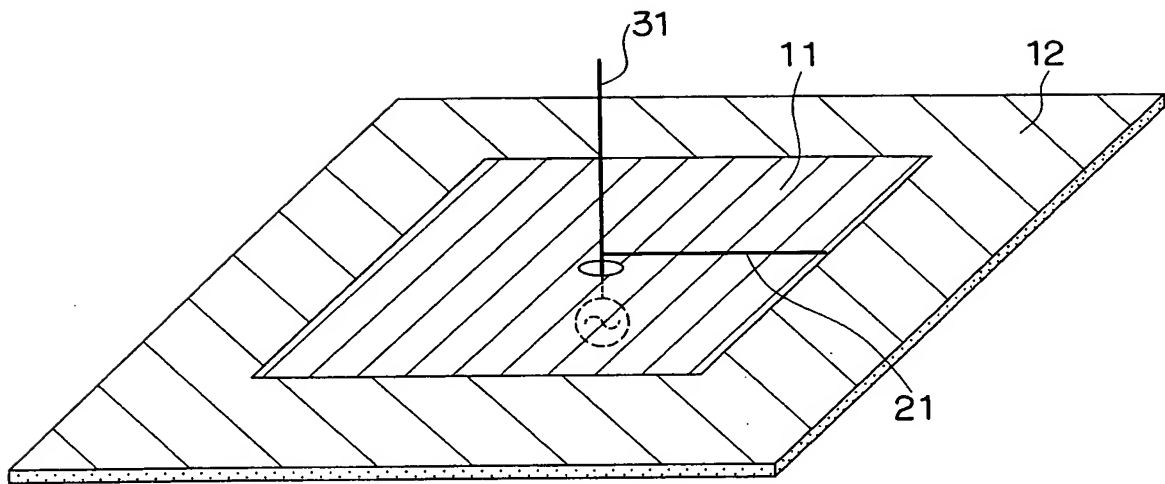
**FIG. 16**



**FIG. 17**

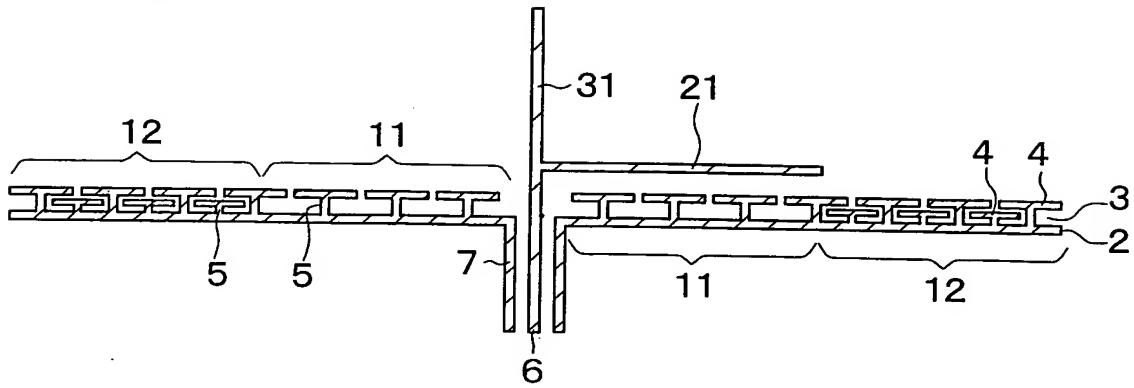


**FIG. 18**

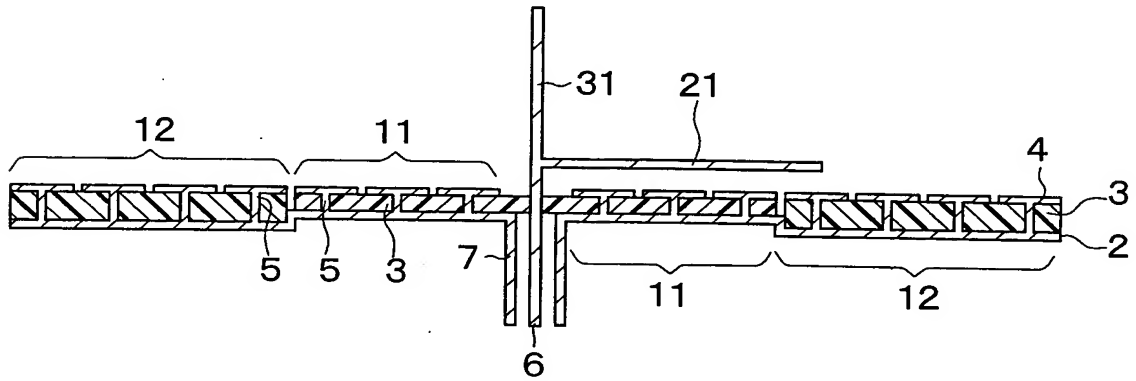




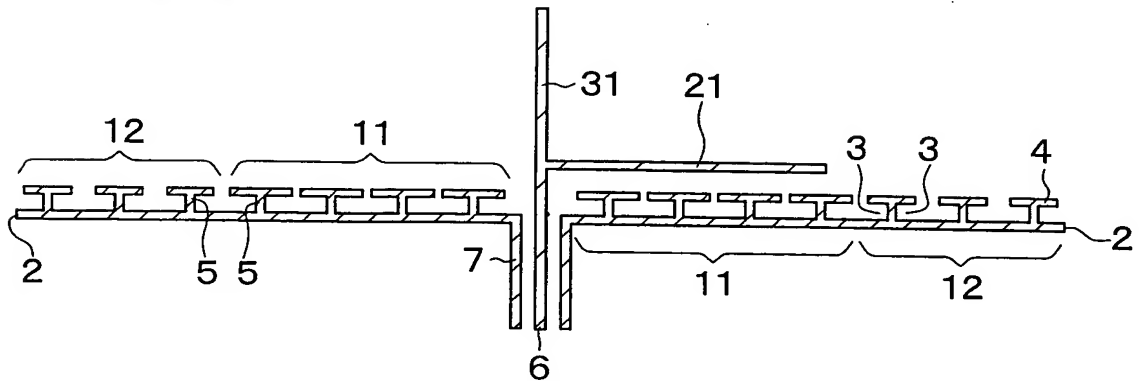
**FIG. 19**



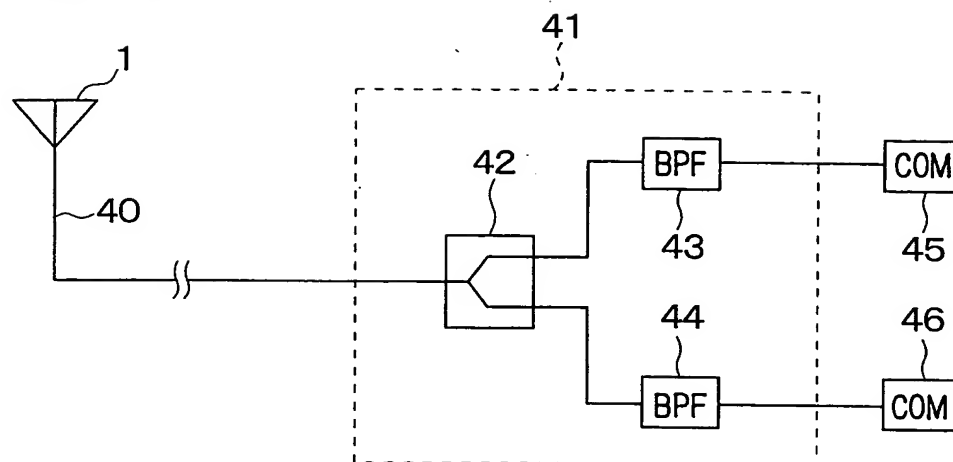
**FIG. 20**



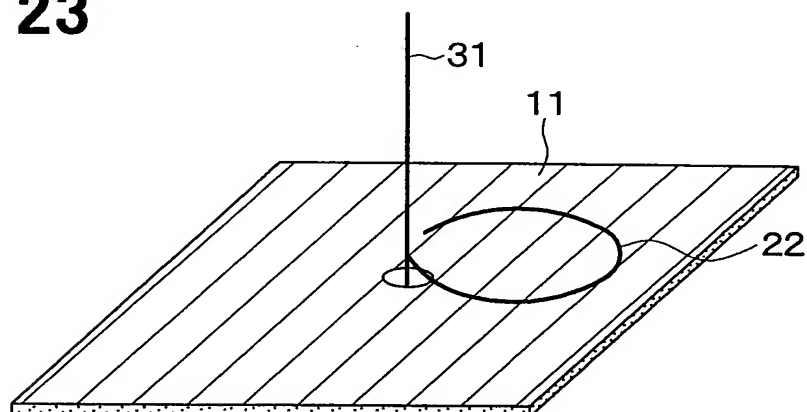
**FIG. 21**



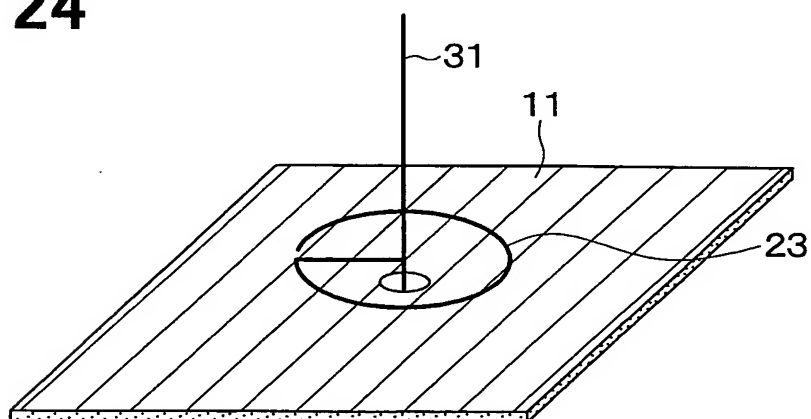
**FIG. 22**



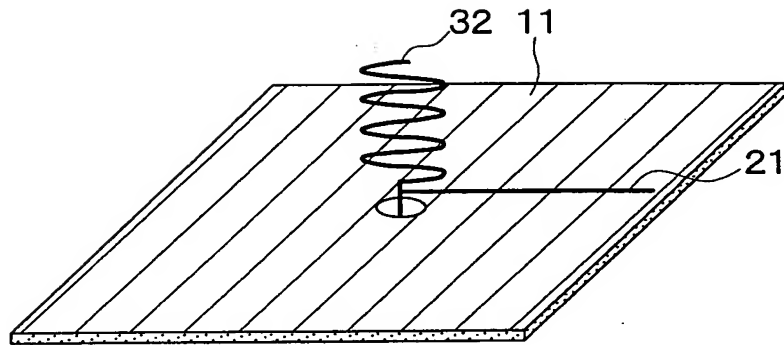
**FIG. 23**



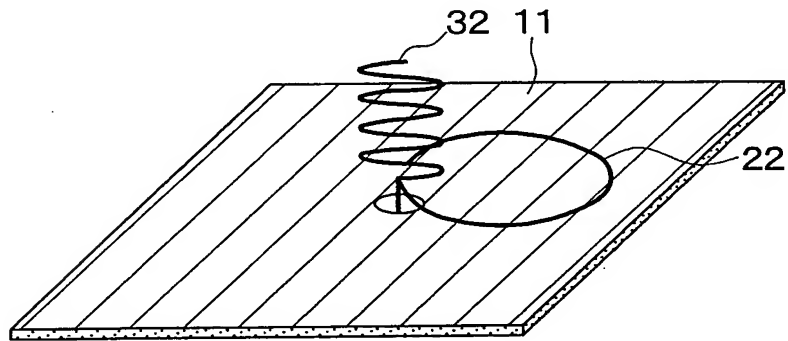
**FIG. 24**



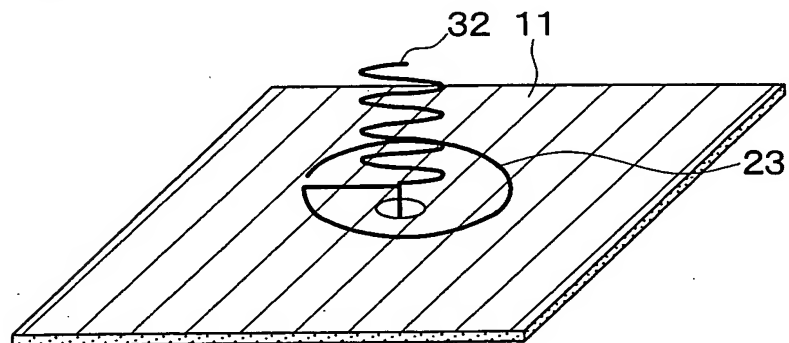
**FIG. 25**



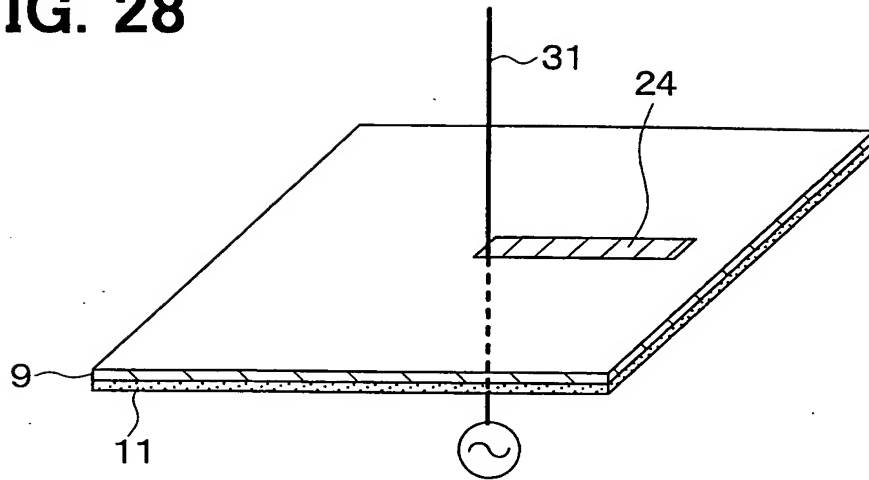
**FIG. 26**



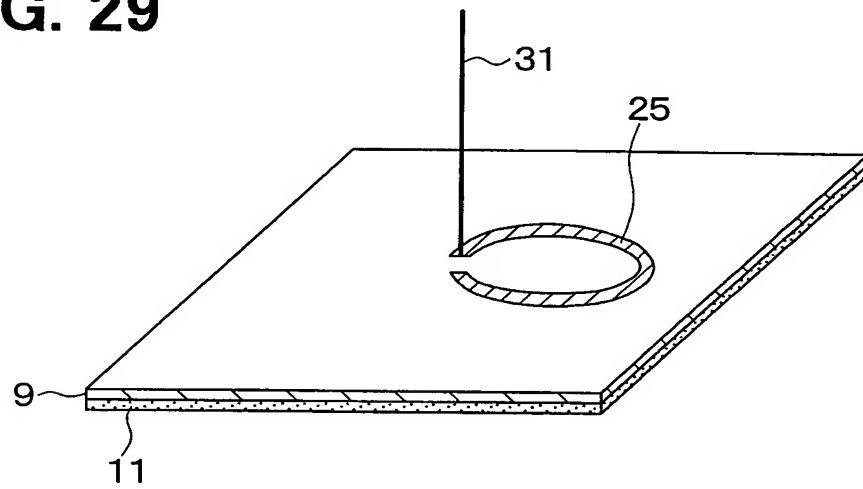
**FIG. 27**



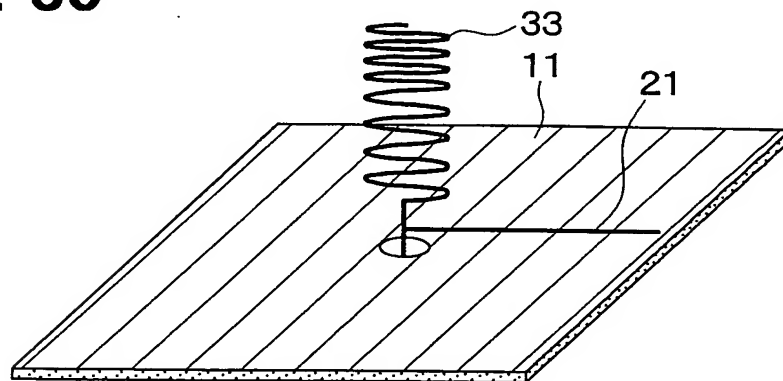
**FIG. 28**



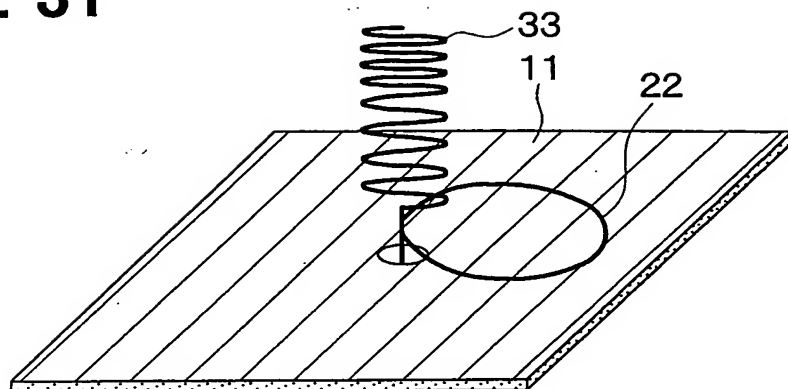
**FIG. 29**



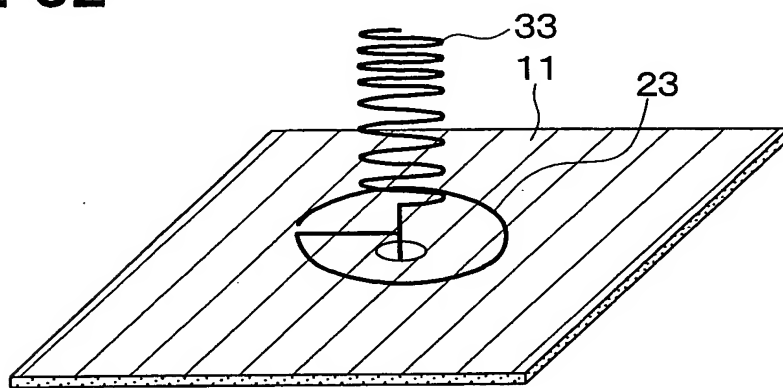
**FIG. 30**



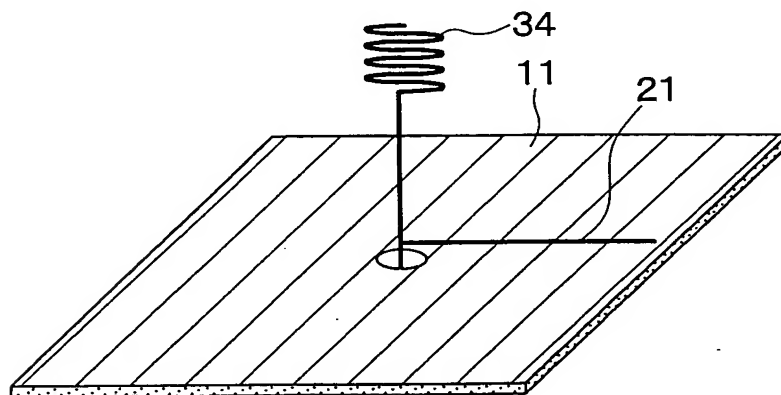
**FIG. 31**



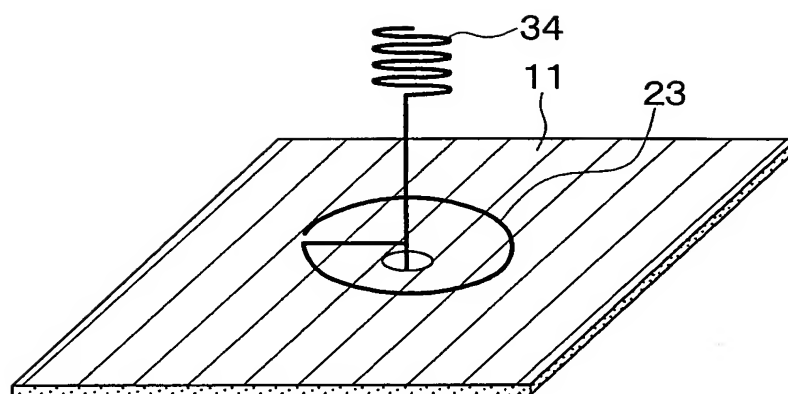
**FIG. 32**



**FIG. 33**



**FIG. 34**



**FIG. 35**

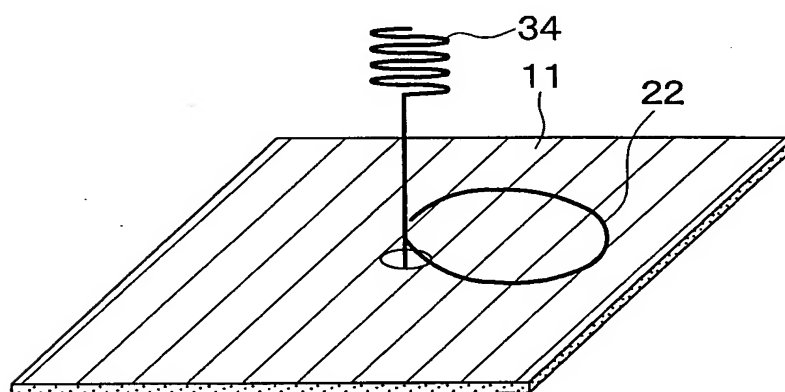


FIG. 36

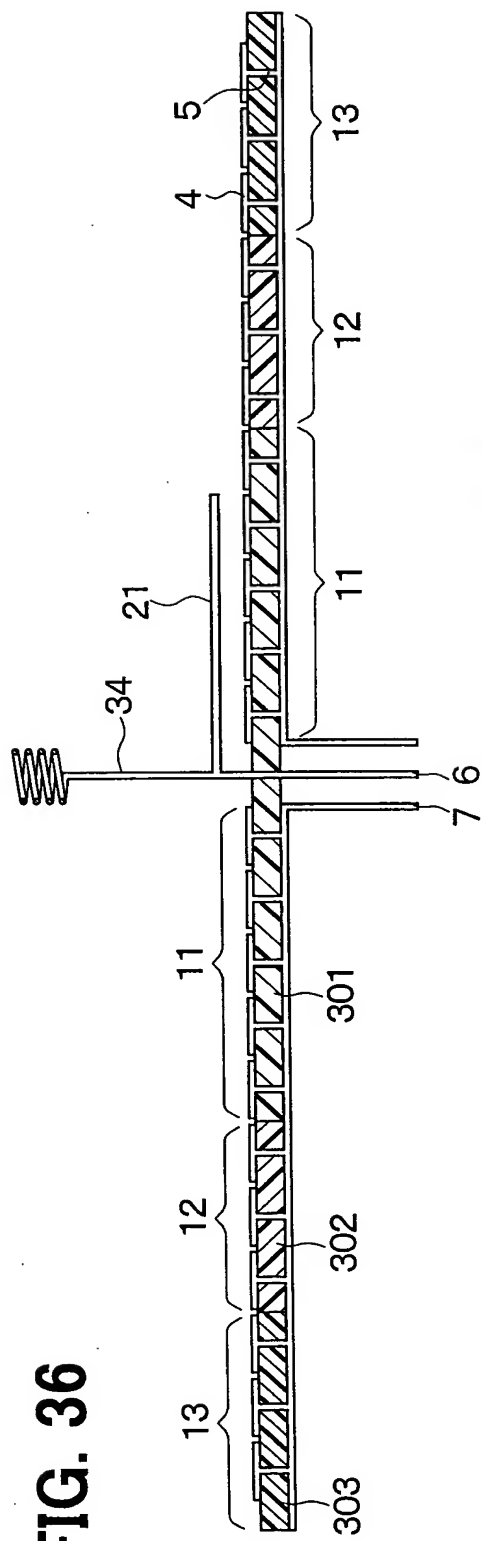
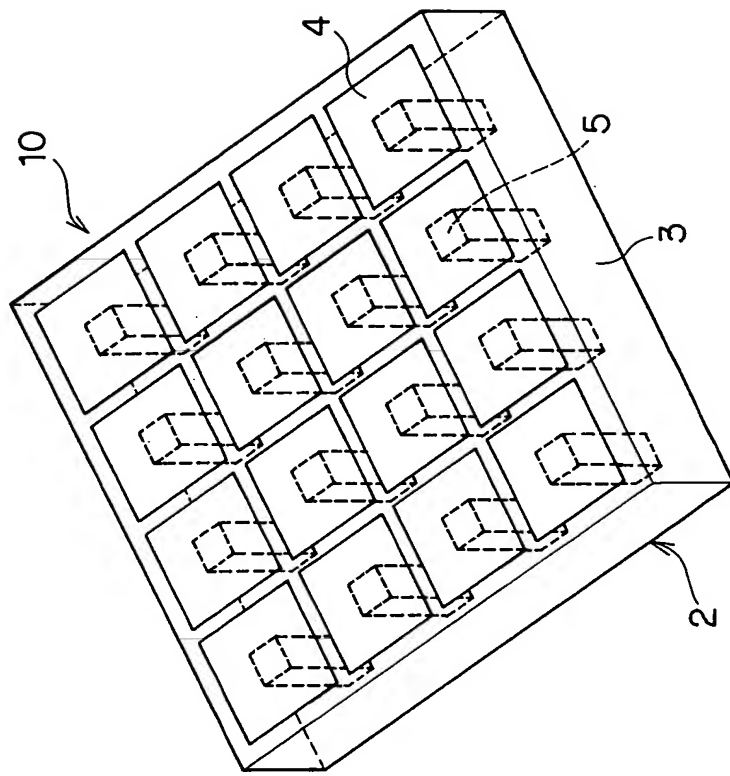
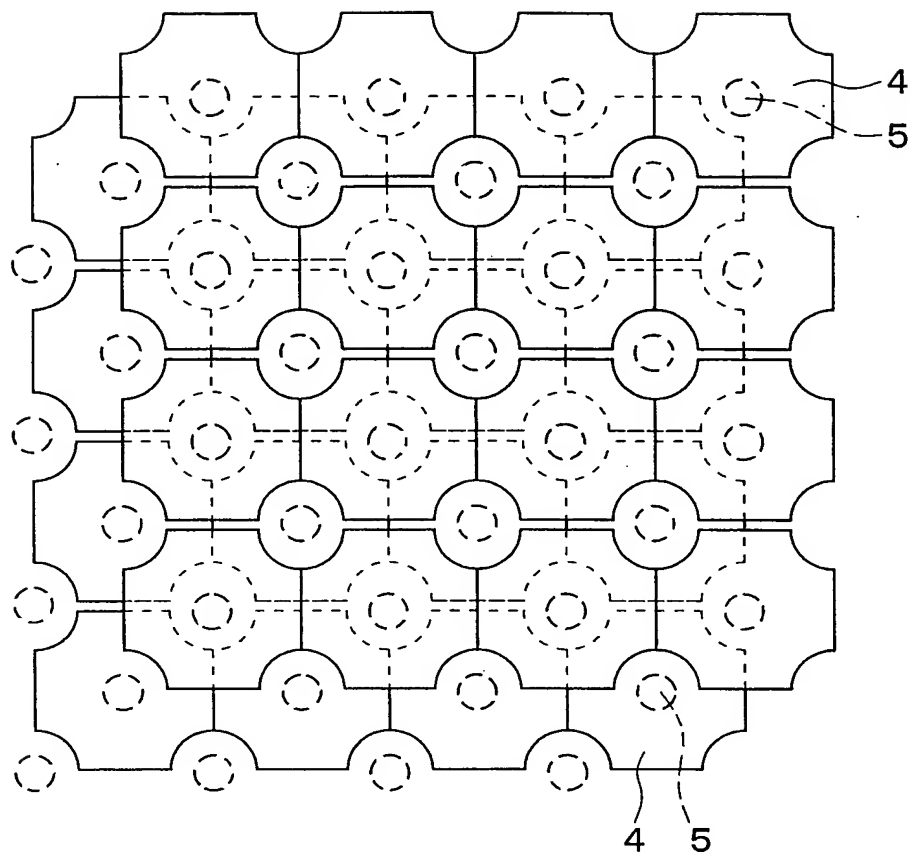


FIG. 37



**FIG. 38**



**FIG. 39**

